

2014 NAIP Summary Briefing

2 December, 2014

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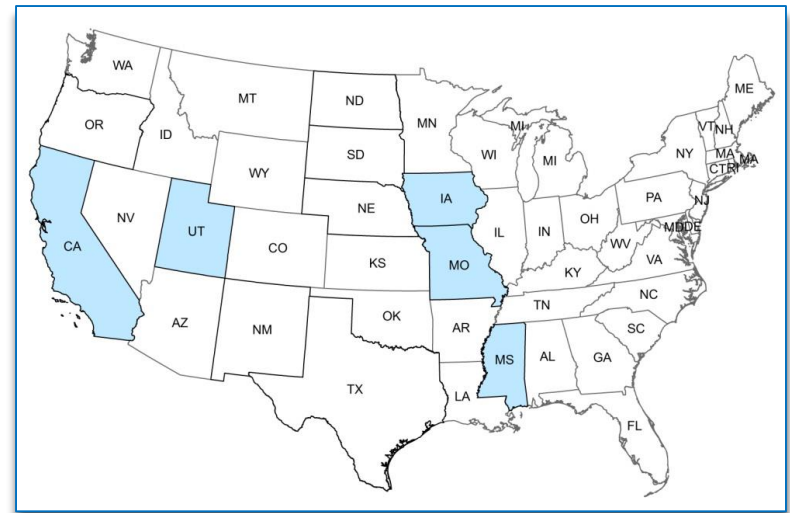


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State Project Areas

State	DOQQs	Sq Mi	Seasons
California	11,152*	164,891	4
Utah	6,032	87,040	1
Iowa	4,239	58,733	1
Missouri	5,018	73,386	1
Mississippi	3,236	50,776	1
5 States	29,677	434,826	8 Seasons



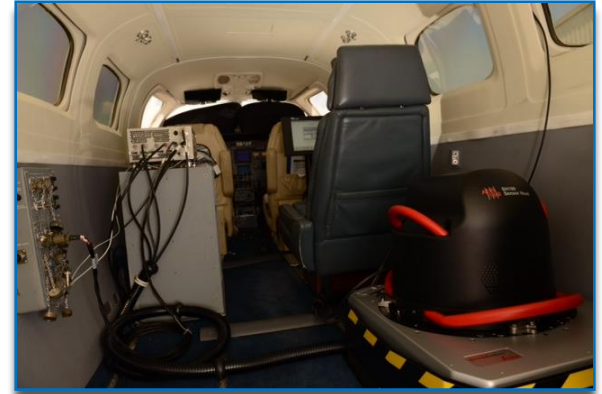
- 57 DOQQs added on CA/MX border by IBWC
(International Boundary and Water Commission)

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Changes in 2014

- Exclusive use of Leica ADS100 camera
- Acquisition at 40cm GSD
 - Flying height ~16,500' AGL
 - Delivery of 1m DOQQs to USDA
 - HR processing to 30cm for licensed data resale
- Further improvements in image processing/production
 - Integration of ADS100 into Suredex acquisition and production processes
 - Continued to improved automated seamline/seamline edit
 - Continued to improve Block and Global balancing



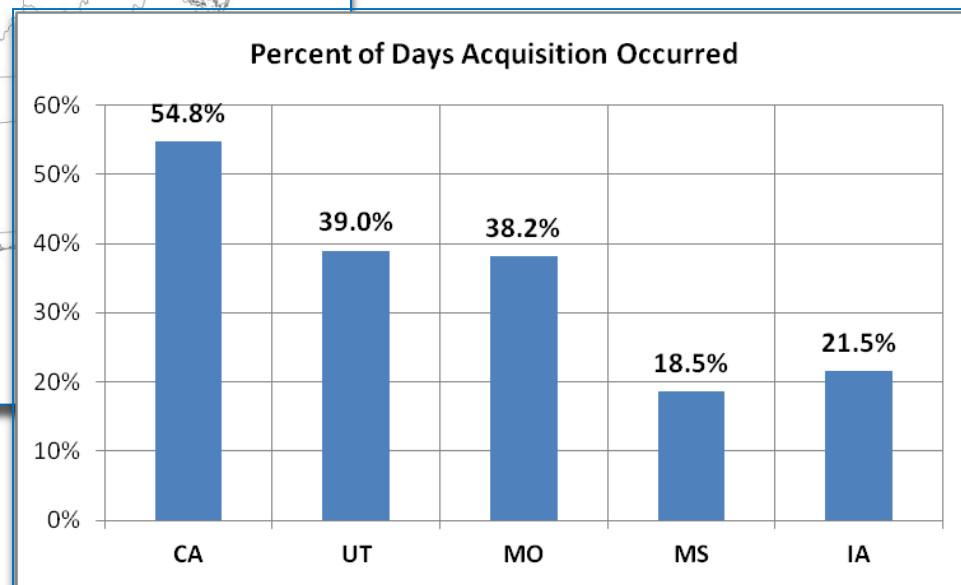
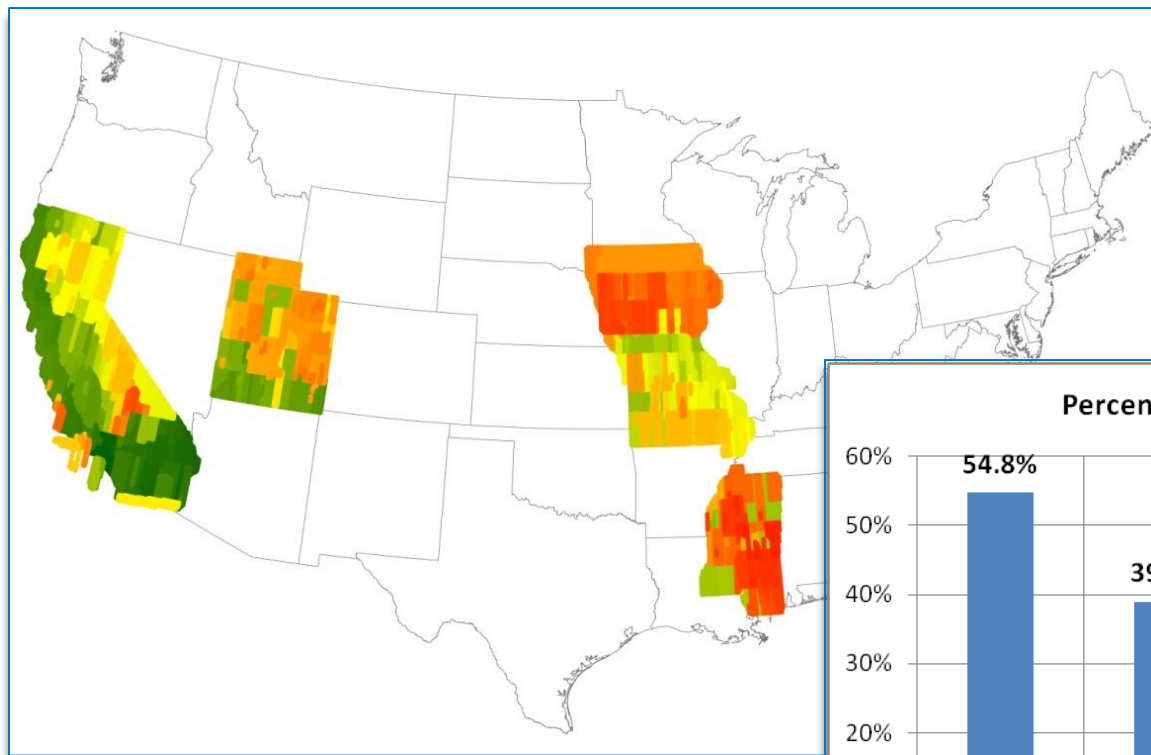
Acquisition

- Six (6) aircraft
 - Suredex – 4 Cessna 441 (Conquest) w RVSM
 - DAS – 1 Cessna 441 (Conquest) w RVSM
 - Aerial Surveys International (ASI) Cheyenne
 - One ADS100 leased from Leica for ASI aircraft
- Total project time span:
 - 128 / 173 days involved acquisition – 74%
- By all accounts an adverse weather situation
 - Mild and wet in Midwest/South
 - Numerous overcast days
- Dealing with Mexican airspace
 - Support from IBWC
 - Required to land in Mexico for aircraft inspection

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Acquisition Chronology

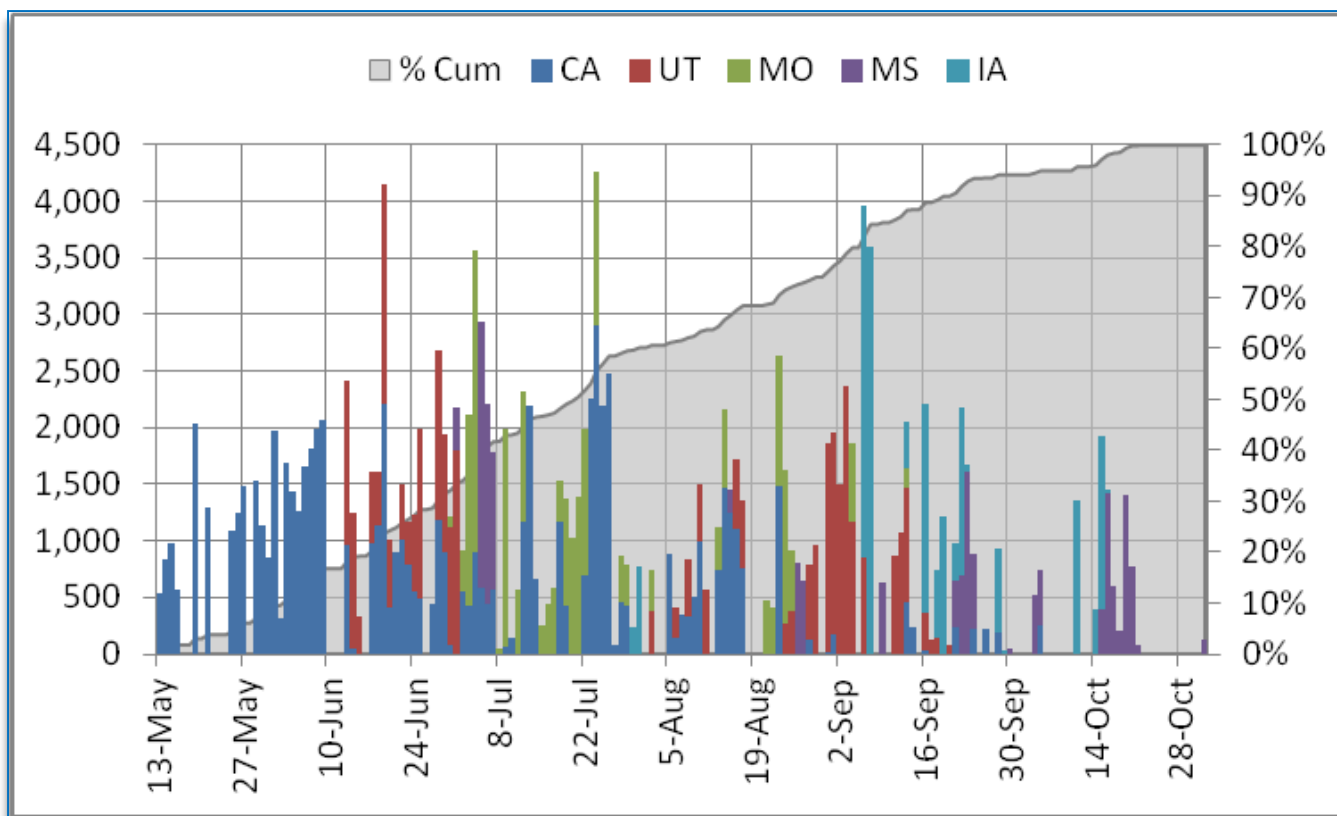


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Acquisition Profile (Aggregate FSLM/Day)

FSLM – Flight Segment Line Miles

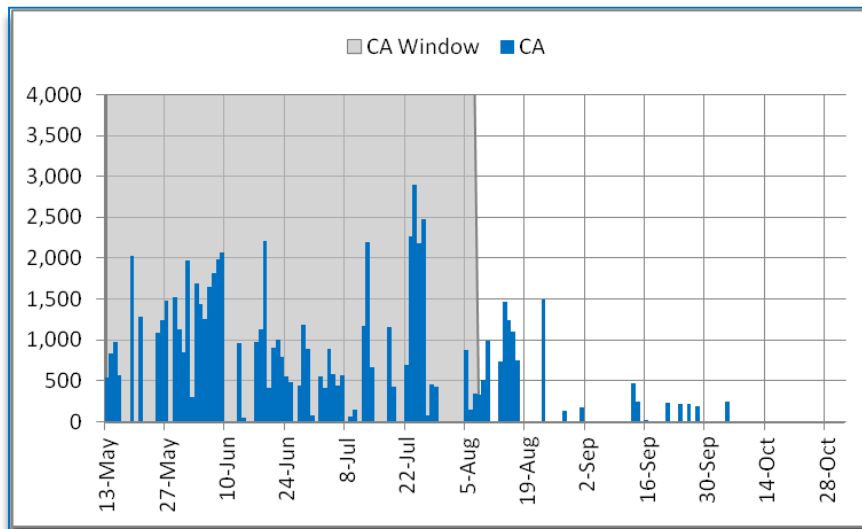


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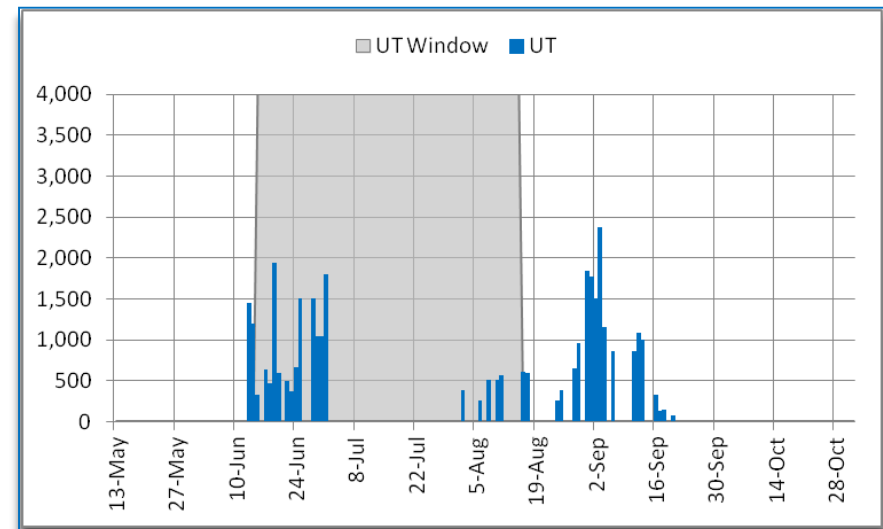


FSLM per day and contracted season window(s)

California – earliest start, 4 seasons,
Mexican DOQQs, airspace issues



Utah – July weather challenges

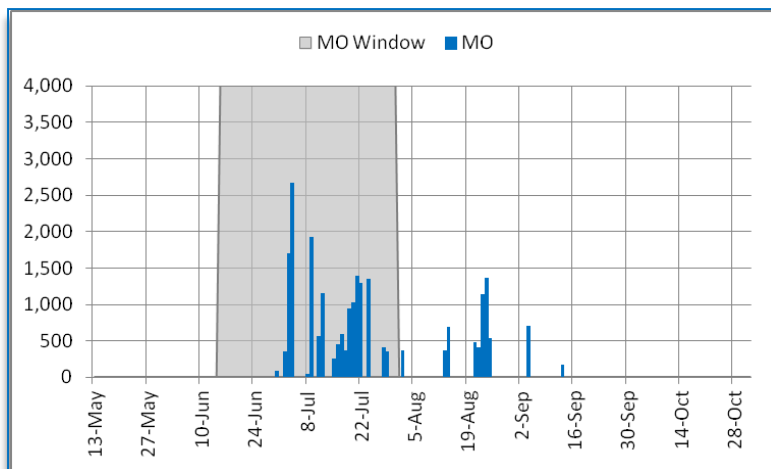


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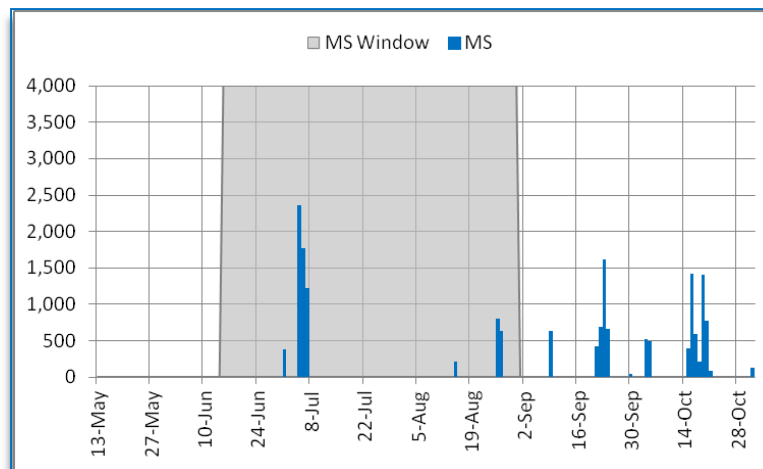


FSLM per day and contracted season window(s)

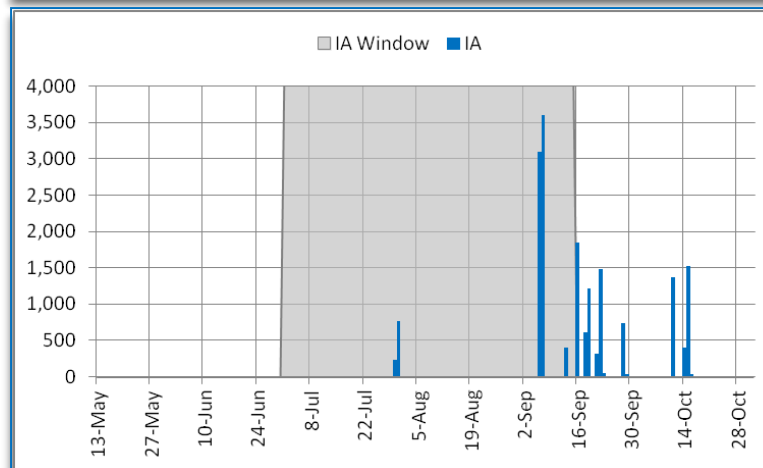
Missouri – cooler, wetter than normal



Mississippi – Gulf Coast challenges



Iowa – July/August weather

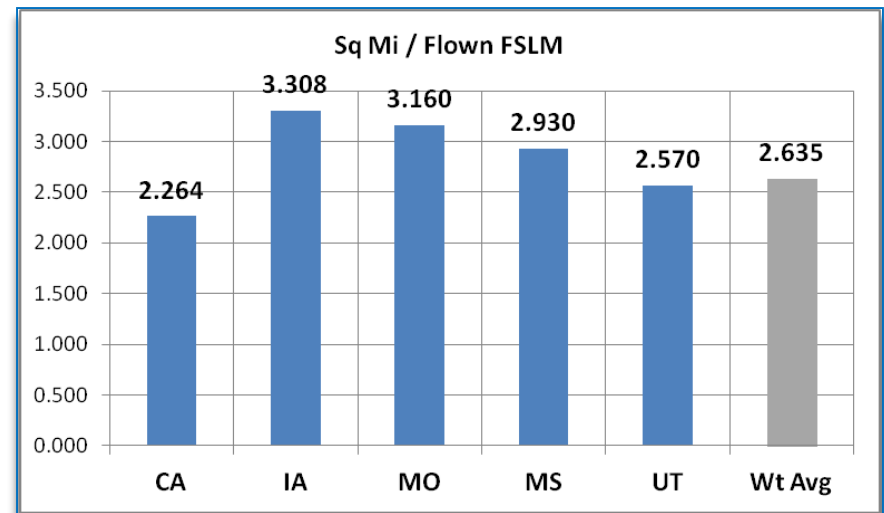
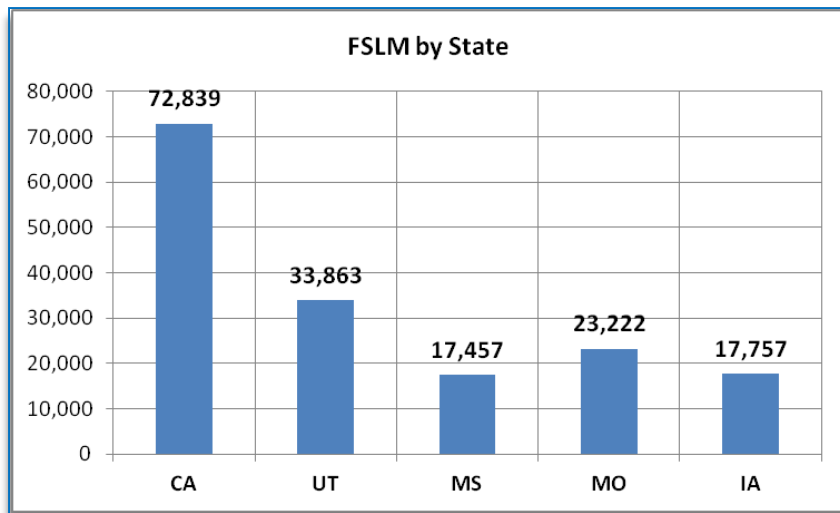


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Flying Lower – Impact of Terrain Ruggedness

California required 46% more FSLM/sq mi than Iowa due to terrain



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**Tim's Reward for
Working the
Mexican Airspace
Issues....**



Production Phase

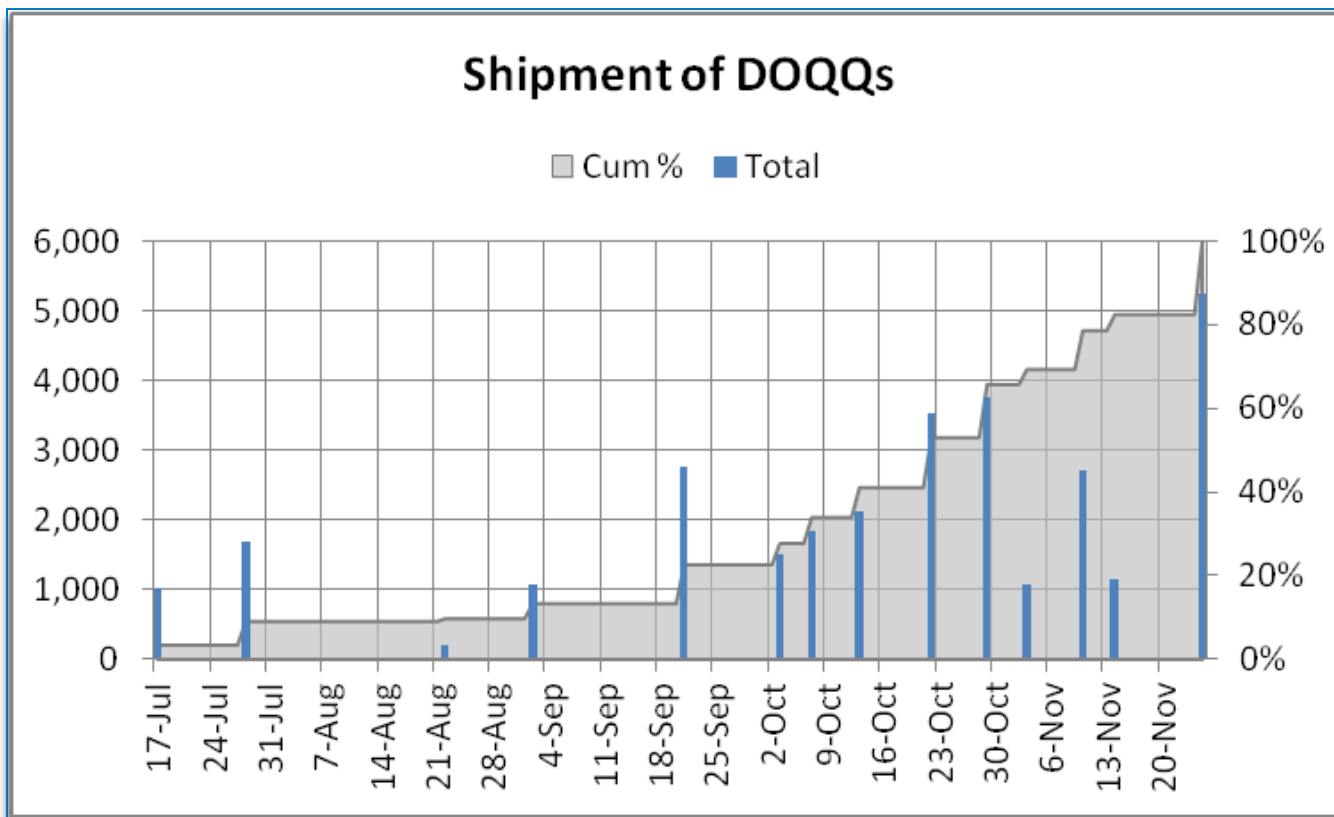
- All production done by Suredex
 - Image processing
 - Aerotriangulation
 - Ortho/mosaicking
 - Product formatting
 - QC
- All DOQQ & CCM deliveries were on-time
- Production of 30cm product did not interfere with 1m DOQQs
 - Followed production of 1m
 - Requires considerably more IT resources

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Shipment Profile

14 shipments
2,433 average DOQQs per shipment



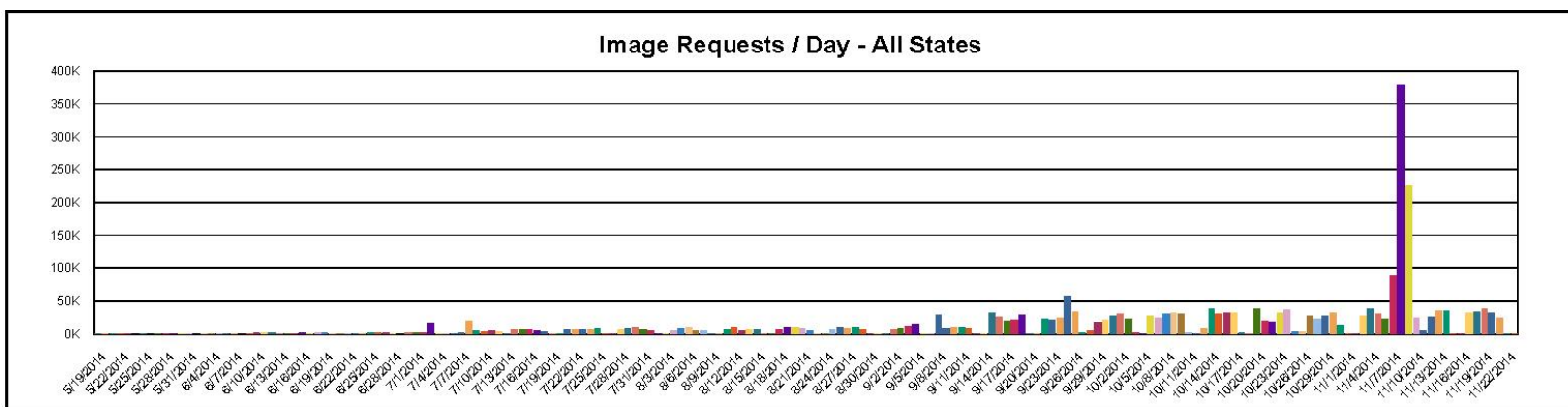
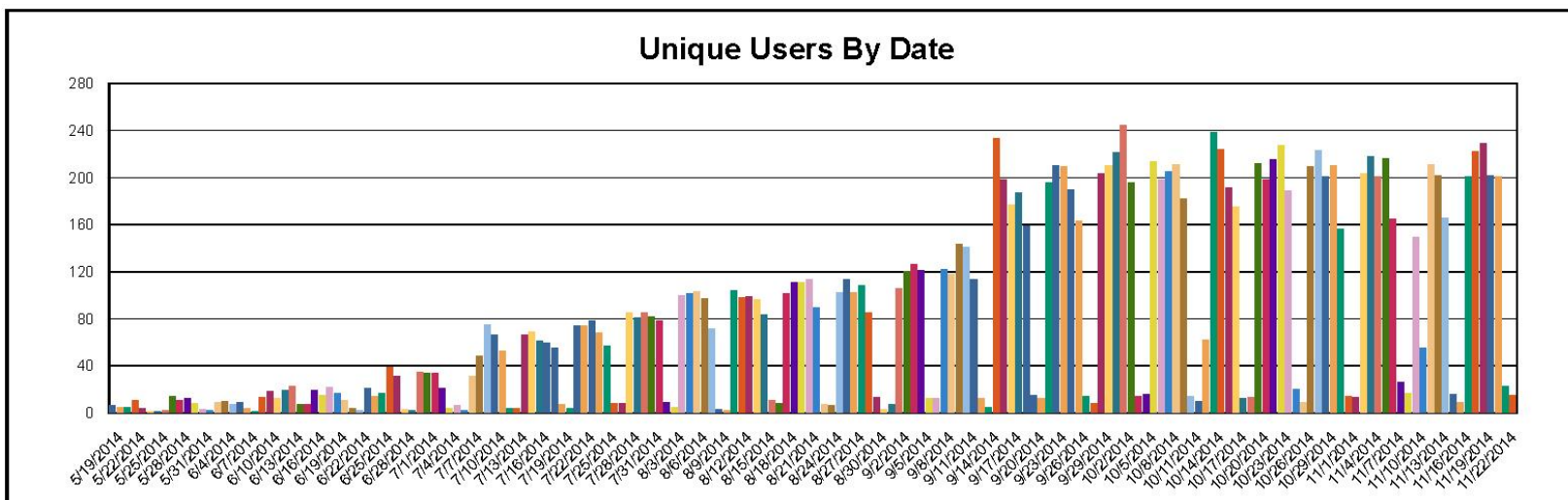
Early Access Web Services (EAWS)

- CA, UT, MO, IA contracted
 - Suredex voluntarily added MS
- Suredex used ESRI ImageServer
 - Organic and cloud resources
- PulseMonitor software for reporting
- Heavily automated process – some touchup required
- Demand never exceeded resources

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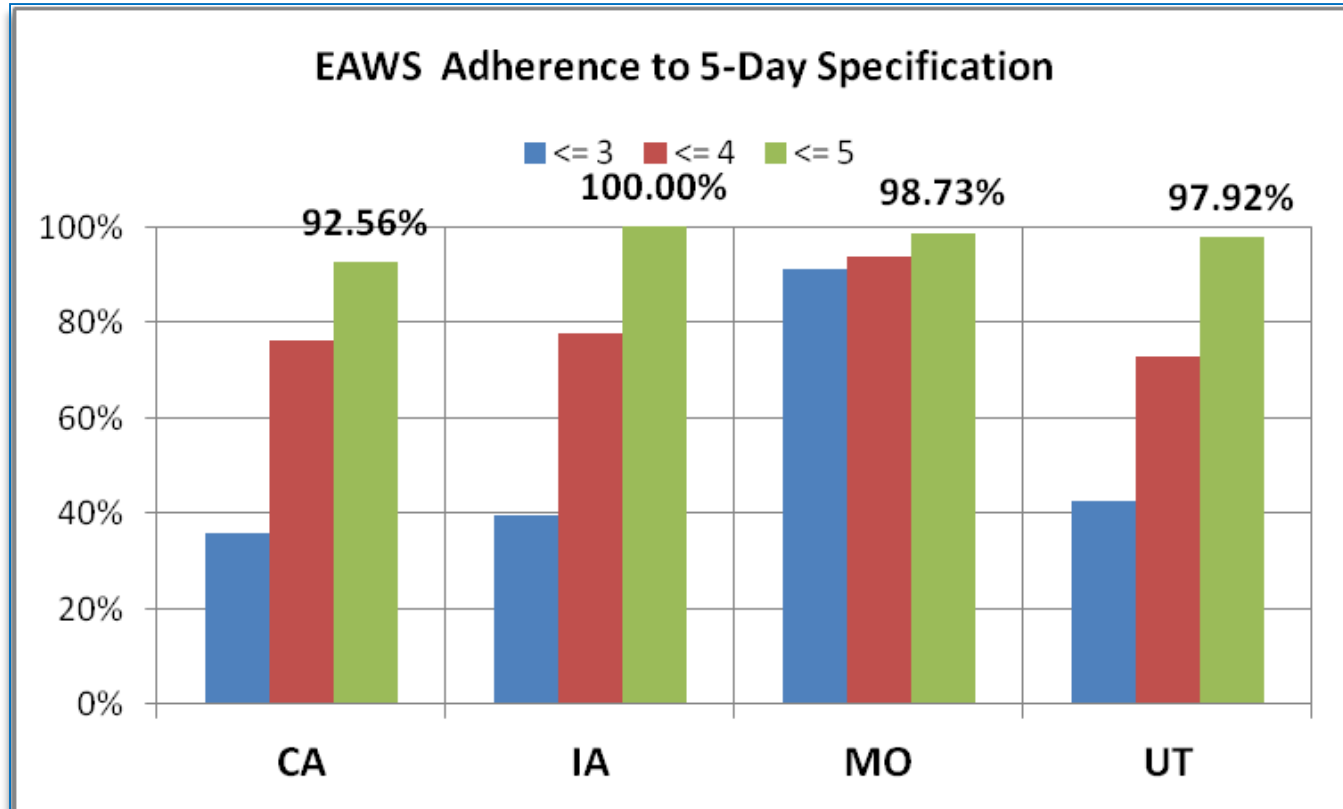


Current EAWS Report Summary



Adherence to EAWS 5-Day Specification

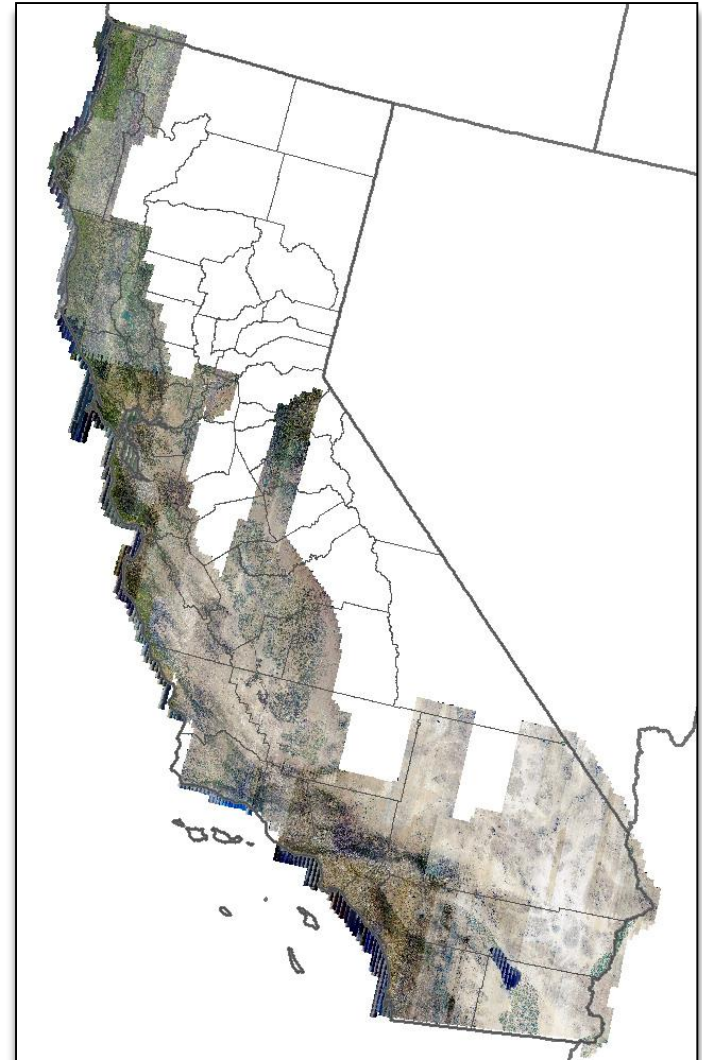
***2.98 Business Days Weighted Average
(CA cut-off for FedEx overnight is 2pm!)***



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California and LAX EAWS



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30cm Sample Image (STL Area)



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30cm Sample Image (STL Area)

